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relations of the Institution to Congress, as found in the volumes of the *Congressional Globe* and *Congressional Record*, the Journals of the Senate and House, and the Statutes at Large. Part I. contains the documents pertaining to the foundation, the will of James Smithson, the correspondence ensuing and statements of other bequests to the Institution; Part II. embraces legislation relative to the establishment of the Institution, 1835-1847; Part III. embraces the legislation in Congress from 1847 to 1887; and according to the table of contents of a second volume (printed in Vol. I.), that will contain details of legislation from 1887 to 1899.

These volumes will prove indispensable to those seeking full and accurate information of the Smithsonian Institution.

H. C. B.

A College Text-book of Chemistry. By IRA REMSEN. New York, Henry Holt and Co. 1901. Pp. xx + 689.

This book is intended to fill a place between the 'Inorganic Chemistry' and the elementary text-books by the same author. After an introductory chapter, in which some fundamental principles, including the laws of definite and multiple proportions, symbols, and equations, are discussed, six chapters are given to oxygen, hydrogen, water and the atomic theory. The remaining elements are considered in the following order of the families of the periodic system: Chlorine, nitrogen, carbon, lithium, glucinum, aluminium, copper, zinc, gallium, germanium, chromium, manganese, iron, platinum. Two short chapters on carbon compounds close the book. At appropriate points, topics pertaining to theoretical chemistry are taken up, such as the periodic law, mass action, dissociation, osmotic pressure, Faraday's law and atomic heats.

While President Remsen believes that 'the time has not yet come for the abandonment of the study of elements and their compounds in what some are pleased to call the old-fashioned way,' those subjects which pertain to what is commonly known as physical chemistry receive a fair degree of attention. Not only are the fundamental theories of solutions discussed in detail in two or three places, but several applications of the theory are considered in con-

nection with individual compounds. The great importance of such a reiteration of fundamental principles is, of course, clearly recognized by all successful teachers.

The laboratory study which the author intends should accompany the use of the text is indicated by a series of experiments at the close of the successive chapters. A few quantitative experiments are included. The subjects for experimental illustration are mostly well selected, but the addition of some work, demonstrating the fundamental properties of solutions is needed.

The book, as a whole, is written in that clear and fluent English which is so characteristic of the author and which has done so much to make him one of the greatest of the teachers of chemistry.

W. A. NOYES.

SCIENTIFIC JOURNALS AND ARTICLES.

The American Naturalist for November opens with an article on 'The Parasitic Origin of Macroergates among Ants,' by W. M. Wheeler, in which the writer describes the occurrence of certain monstrous workers of the genus *Pheidole* caused by the presence of a parasite of the genus *Mermis*. These macroergates are compared with phenomena observed among other species, the author concluding that the character of the adult ants is not due to the efforts of the attendant workers alone, but also to a certain amount of initiative in the larvæ. H. L. Osborn describes 'Some Points in the Anatomy of a Collection of Axolotls from Colorado, and a Specimen from North Dakota,' these points being wholly external and connected with the change of *Siredon* into *Amblystoma*. 'A Parasitic or Commensal Oligochaete in New England' is described in some detail by M. A. Willcox, and Albert C. Eycleshymer gives some interesting 'Observations on the Breeding Habits of *Ameiurus nebulosus*.' M. Louise Nichols considers 'The Spermatogenesis of *Oniscus Asellus* Lim., with especial reference to the History of the Chromatin,' and George H. T. Nuttall treats of 'The Formation of Specific Anti-Bodies in the Blood, following upon Treatment with the Sera of Different Animals,' giving the results of a series of investigations which